



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Akira TSUKIHASHI

Serial No: 10/078,189

Filed: February 15, 2002

For: DISC RECORDING APPARATUS AND DISC

Art Unit: 2652

Examiner: Not Assigned

PATENT  
81784.0249

RECEIVED  
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Technology Center 2600

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Commissioner for Patents  
Washington D.C. 20231, on

July 25, 2002

Date of Deposit

Anthony J. Oller, Reg. No. 41,232

Made

Signature *Anthony J. Oller* 07/25/02 Date

#4/A  
L.M.G. Andler  
8.

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Prior to the first Office Action in the present application, please enter and consider the following amendments and remarks:

IN THE SPECIFICATION:

Please replace the paragraph on page 2, starting at line 8 with the following text:

It is therefore an advantage of the present invention to provide a disc and a disc recording apparatus capable of creating a CD that can be increased in recording capacity and is also playable on an ordinary CD player.

IN THE CLAIMS:

Please replace the text of claims 1-16 with the following text:

1. A disc recording apparatus for recording data on a disc comprising a recording address  $y$  calculated from  $y = n(x-m) + m$ , where  $x$  is an absolute time address generated on the basis of a pregroove formed on the disc,  $n$  is a scale factor of recording density, and  $m$  is a recording start address.

A1  
C2A



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Anthony J. Orfer, Reg. No. 41,232

Name

07/25/02

Signature

Date

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Transmitted herewith is an amendment in the above-identified application.

- ☐ Small entity status of this application under 37 C.F.R. 1.9 and 1.27 has been established by a verified statement previously submitted.
- ☐ A verified statement to establish small entity status under 37 C.F.R. 1.9 and 1.27 is enclosed.
- ☐ A Notice Of Change Of Attorney's Address and Associate Power Of Attorney is enclosed.
- ☐ No additional fee is required.

The fee has been calculated as shown below:

he fee has been calculated as shown below.

	(Col. 1) CLAIMS REMAINING AFTER AMENDMENT		(Col. 2) HIGHEST NUMBER PREVIOUSLY PAID FOR		(Col. 3) PRESENT EXTRA*	LG/SM \$ ENTITY FEE		ADD'L FEE DUE
TOTAL CLAIMS FEE	22	-20	20	**	2	LG=\$18 SM=\$9	\$18	\$ 36
INDEPENDENT CLAIMS FEE	4	-3	3	***	1	LG=\$84 SM=\$42	\$84	\$ 168
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIMS						LARGE ENTITY FEE = \$280 SMALL ENTITY FEE = \$140		\$
TOTAL								\$ 204

\* If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.

\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.

\*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space. The "Highest Number Previously Paid For" (Total or Independent) is the highest number found from the equivalent box on Col. 1 of a prior amendment or the number of claims originally filed.

- ☒ A check in the amount of \$ 204.00 to cover the additional claims fee is enclosed. **A copy of this sheet is enclosed.**
- ☐ A check in the amount of \$      to cover the extension fee is enclosed. **A copy of this sheet is enclosed.**
- ☒ The Commissioner is hereby authorized to charge any deficiencies of fees associated with this communication or credit any overpayment to Deposit Account No. 50-1314. **A copy of this sheet is enclosed.**
- ☒ Any filing fees under 37 C.F.R. 1.16 for the presentation of extra claims
- ☒ Any patent application processing fees under 37 C.F.R. 1.17

Respectfully submitted,  
HOGAN & HARTSON LLP

By:

Anthony J. Orfer  
Registration No. 41,232  
Attorney for Applicant(s)

Date: July 25, 2002  
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